

## QUESTION 22

### AIR

**EAST CENTRAL FLORIDA REGIONAL PLANNING COUNCIL (LETTER DATED JANUARY 17, 2008)**

- 18. A screening analysis projected for intersections where significant and adverse impacts are should be submitted.**

A screening air quality analysis was conducted for the following three intersections using the COFlorida 2004 intersection screening model. The three intersections to be modeled are:

- US 1 at SR 442
- I-95 Southbound Ramps at SR 442
- I-95 Southbound Ramps at SR 421

These three locations were selected as they effectively represent the study intersections with the highest volumes and the overall projected intersection delays tend to be higher than most of the other study intersections. A vicinity map showing these intersections is attached, and the traffic analysis documentation is provided in the responses to comments pertaining to Question 21 of the ADA.

The COFlorida 2004 model was used as a preliminary screening tool to model intersection-level emissions. This software assumes conservative, worst-case conditions for each intersection and performs an internal run of Mobile6.2 and CAL3QHC to determine whether each intersection meets or exceeds the NAAQS standards. If the intersections are found to meet the standards, no further screening is necessary. However, if an intersection is found to exceed the standards, microscale intersection modeling must be performed using CAL3QHC.

The assumptions used in the COFlorida model are:

- Region: Central Florida
- Land Use: Suburban
- Project Year: 2013
- Minimum Right-of-Way Distance: 10 ft (default)
- Receptor Locations: Default

Using COFlorida 2004, none of the three intersections analyzed were found to be in excess of the NAAQS standards. As a result, CAL3QHC was not used for this analysis. Table 1, COFlorida 2004 8-Hour Emission Factors, 2013 Design Year summarizes the maximum eight-hour screening emission value for the three study intersections. The detailed results of the COFlorida 2004 Model Runs are attached in Appendix 22-1.

**Table 1**  
**COFlorida 2004 8-Hour Emission Factors, 2013 Design Year**

<b>Intersection</b>	<b>Emission Factor (ppm)</b>	<b>NAAQS Standards (ppm)</b>
US 1 at SR 442	5.0	9.0
I-95 Southbound Ramps at SR 442	3.8	9.0
I-95 Southbound Ramps at SR 421	4.5	9.0